

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IFW image

~~Future Applicant:~~

Oron YACOBY-ZEEVI et al

Serial No.: 10/559,925

Filed: 02-May-2006

For: HEPARANASE ACTIVITY NEUTRALIZING
ANTI-HEPARANASE MONOCLONAL
ANTIBODY AND OTHER ANTI-HEPARANASE
ANTIBODIES

Examiner: DIBRINO, MARIANNE NMN

Group Art Unit: 1644

Attorney
Docket: 30337

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed is a PTO Form 1449 which lists citations which may be material to the patentability and examination of the above identified application. Also enclosed are copies of all other references have been received by the Examiner through corresponding applications. These are submitted in compliance with the duty of disclosure defined in 37 CFR 1.56. The Examiner is requested to make these citations of official record in this application.

Applicant requests that MPEP 609 III A(2)(E) be complied with and the examiner consider information which has been considered by the Office in a parent applications thereof. A listing of the references cited in those applications follows on the attached PTO/SB/08A. Applicant respectfully requests that they be made of record in the instant application.

This application is a National Phase Application of PCT Application No. PCT/IL2004/000477 having International Filing Date of June 3, 2004, which claims the benefit of U.S. Patent Application No. 10/456,573, filed on June 9, 2003 and U.S. Patent Application No. 10/645,659, filed on August 22, 2003. The contents of the above Application s are all incorporated herein by reference.

This Information Disclosure Statement under 37 CFR 1.56 is not to be construed as a representation that a search has been made, that additional matter which is material to the examination of this application does not exist, or that any or more of these citations constitutes prior art.

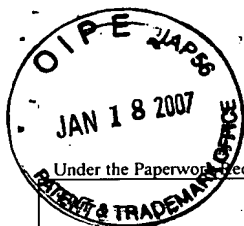
Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Martin D. Moynihan".

Martin D. Moynihan

Registration No. 40,338

Dated: January 11, 2007



PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	10/559,925
Filing Date	May 02, 2006
First Named Inventor	Oron YACOBY-ZEEVI et al
Art Unit	1644
Examiner Name	DIBRINO, MARIANNE NMN
Attorney Docket Number	30337

Sheet 1 of 27

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1	US-5,997,863	07-7-1999	Zimmermann et al.	
	2	US-5,688,679	11-18-1997	Powell	
	3	US-6,387,643	05-14-2002	Heinrikson et al.	
	4	US-6,423,312	07-23-2002	Yacoby-Zeevi	
	5	US-6,531,129	03-11-2003	Pecker et al.	
	6	US-4,455,296	06-19-1984	Hansen et al.	
	7	US-5,571,506	05-5-1996	Regan et al.	
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	30	US-2003/0161823	08-28-2003	Ilan et al.	
	31	US-5,962,321	05-5-1999	Gough et al.	

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/559,925
				Filing Date	May 02, 2006
				First Named Inventor	Oron YACOBY-ZEEVI et al
				Art Unit	1644
				Examiner Name	DIBRINO, MARIANNE NMN
Sheet	2	of	27	Attorney Docket Number	30337
U.S. PATENT DOCUMENTS					
	32	US-5,830,759	03-3-1998	Chang et al.	
	33	US-6,230,151	08-8-2001	Agrawal et al.	
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	35	US-6,314,420	06-6-2001	Lang et al.	
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	67	US-2004/0146497	07-29-2004	Ilan et al.	
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				Art Unit	1644		
				Examiner Name	DIBRINO, MARIANNE NMN		
Sheet	3	of	27	Attorney Docket Number	30337		
U.S. PATENT DOCUMENTS							
	69	US-2004/0146925	07-29-2004	Pecker et al.			
	70	US-2005/0260187	11-24-2005	Ilan et al.			
	71	US-2006/0008892	01-12-2006	Yacobi-Zeevi et al.			
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FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Documents		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
		Country Code ² Number ⁴ Kind Code ⁵ (if known)					
	85	PCT WO 95/04158		09-9-1995	Hoogewerf et al.		
	86	PCT WO 99/21975		06-6-1999	Freeman et al.		
	87	PCT WO 91/19197		12-12-1991	Nicolson et al.		
	88	PCT WO 95/04518		02-16-1995	Midha et al.		
	89	PCT WO 97/11684		03-3-1997	Bennett et al.		
	90	PCT WO 99/18852		04-22-1999	Arenson		
	91	PCT WO 91/02977		07-7-1991	Fuks et al.		
	92	PCT WO 97/27327		07-31-1997	Van Ness et al.		
	93	PCT WO 00/52149		08-8-2000	Yacobi-Zeevi		
	94	PCT WO 00/52178		08-8-2000	Pecker et al.		
	95	PCT WO 99/40207		08-12-1999	Nakajima et al.		
	96	PCT WO 98/46258		10-22-1998	Bhaskar et al.		
	97	EP 0254067		01-27-1988	Cohen et al.		
Examiner Signature				Date Considered			

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Sheet	5	Of	27	Attorney Docket Number	30337
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	112	Kurachi et al. "Role of Intron I in Expression of the Human Factor IX Gene", Journal of Biological Chemistry, 270(10): 5276-5281, 1995.			
	113	Carlone et al. "Embryonic Modulation of Basic Fibroblast Growth Factor in the Rat Uterus", Biology of Reproduction, 49(4): 653-665, 1993.			
	114	Wight et al. "The Role of Proteoglycans in Cell Adhesion, Migration and Proliferation", Current Opinion in Cell Biology, 4: 793-801, 1992.			
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	121	Sasisekharan et al. "Heparinase Inhibits Neovascularization", Proc. Natl. Acad. Sci. USA, 91: 1524-1528, 1994.			
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	125	Kato et al. "Physiological Degradation Converts the Soluble Syndecan-1 Ectodomain From An Inhibitor to A Potent Activator of FGF-2", Nature Medicine, 4(6): 691-697, 1998.			
	126	Jin et al. "Immunohistochemical Localization of Heparanase in Mouse and Human Melanomas", International Journal of Cancer, 45: 1088-1095, 1990.			
Signature				Considered	

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Sheet	6	Of	27	Attorney Docket Number	30337
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
	127	Hoogewerf et al. "CXC Chemokines Connective Tissue Activating Peptide-III and Neutrophil Activating Peptide-2 Are Heparin/Heparan Sulfate-Degrading Enzymes", Journal of Biological Chemistry, 270(7): 3268-3277, 1995.P.3269			
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	130	Kang et al. "Prolactin-Inducible Enhancer Activity of the First Intron of the Bovine β -Casein Gene", Mol. Cells, 8(3): 259-265, 1998. Abstract.			
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	132	Guriec et al. "CD44 Isoforms With Exon V6 and Metastasis of Primary N0M0 Breast Carcinomas", Breast Cancer Res. Treat., 44(3):261-268, 1997. Abstract.			
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	134	Faber-Elman et al. "Involvement of Wound-Associated Factors in Rat Brain Astrocyte Migratory Response to Axonal Injury: In Vitro Simulation", J. Clin. Invest., 97(1): 162-171, 1996.			
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				Filing Date	May 02, 2006
				First Named Inventor	Oron YACOBY-ZEEVI et al
				Group Art Unit	1644
				Examiner Name	DIBRINO, MARIANNE NMN
Sheet	7	Of	27	Attorney Docket Number	30337
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
	142	Kronenwett et al. "Oligodeoxyribonucleotide Uptake in Primary Human Hematopoietic Cells Is Enhanced by Cationic Lipids and Depends on the Hematopoietic Cell Subset", Blood, 91(3): 852-862, 1998.			
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	147	Wang et al. "Isolation and Characterization of Pseudomonas Aeruginosa Genes Inducible by Respiratory Mucus Derived From Cystic Fibrosis Patients", Mol. Microbiol., 22(5): 1005-1012, 1996. Abstract.			
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
	155	Meluleni et al. "Mucoid Pseudomonas Aeruginosa Growing in A Biofilm In Vitro Are Killed by Opsonic Antibodies to the Mucoid Exopolysaccharide Capsule But Not by Antibodies Produced During Chtonic Lung Infection in Cystic Fibrosis Patients", J. Immun., 155(4): 2029-2038, 1995. Abstract.			
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	163	Cai et al. "Comparison of Sputum Processing Techniques in Cystic Fibrosis", Pediatr. Pulmonol., 22(6): 402-407, 1996. Abstract.			
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				Examiner Name	DIBRINO, MARIANNE NMN
Sheet	9	Of	27	Attorney Docket Number	30337
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
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	175	Marty et al. "Influence of Nutrient Media on the Chemical Composition of the Exopolysaccharide From Mucoid and Non-Mucoid Pseudomonas Aeruginosa", FEMS Microbiol. Letters, 77(1-3): 35-44, 1992. Abstract.			
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
	179	Vogel et al. "Production of Proteoglycans by Human Lung Fibroblasts (IMR-90) Maintained in A Low Concentration of Serum", Biochem. J., 207(3): 369-379. Abstract.			
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	181	Welch et al. "Complex Saccharide Metabolism in Cystic Fibrosis Fibroblasts", Pediatr. Research, 9(9): 698-702, 1975.			
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	187	Tatnell et al. "Characterisation of Alginates From Mucoid Strains of Pseudomonas Aeruginosa", Biochemical Society Transactions, 24: 404S, 1996.			
	188	Tatnell et al. "Chemical Analysis of Alginates From Mucoid Strains of Pseudomonas Aeruginosa", Biochemical Society Transactions, 22: 310S, 1994.			
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
	193	Gospodarowicz et al. "Permissive Effect of the ExtraCellular Matrix on Cell Proliferation In Vitro", Proc. Natl. Acad. Sci. USA., 77(7): 4094-4098, 1980.			
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	196	Miller et al. "Xenograft Model of Progressive Human Proliferative Breast Disease", J. Nat. Cancer Inst., 85: 1725-1732, 1993. Abstract.			
	197	Nakajima et al. "Heparan Sulfate Degradation: Relation to Tumor Invasion and Metastatic Properties of Mouse B16 Melanoma Sublines", Science, 220: 611-613, 1983.			
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	203	Konstan et al. "Current Understanding of the Inflammatory Process in Cystic Fibrosis", Pediatric Pulmonology, 24: 137-142, 1997.			
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	207	Cheng et al. "Increased Sulfation of Glycoconjugates NY Cultured Nasal Epithelial Cells From Patients With Cystic Fibrosis", J. Clin. Invest., 84(1): 68-72, 1989. Abstract.			
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	212	Zahm et al. "Early Alterations in Airway Mucociliary Clearance and Inflammation of the Lamina Propria in CF Mice", Am. J. Physiol., 272(3 Pt 1): C853-C859, 1997. Abstract.			
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Sheet	13	Of	27	Attorney Docket Number	30337
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				First Named Inventor	Oron YACOBY-ZEEVI et al
				Group Art Unit	1644
				Examiner Name	DIBRINO, MARIANNE NMN
Sheet	19	Of	27	Attorney Docket Number	30337
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/559,925
				Filing Date	May 02, 2006
				First Named Inventor	Oron YACOBY-ZEEVI et al
				Group Art Unit	1644
				Examiner Name	DIBRINO, MARIANNE NMN
Sheet	25	Of	27	Attorney Docket Number	30337
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
	396	Shekhar et al. "Correlation of Differences in Modulation of Ras Expression With Metastatic Competence of Mouse Mammary Tumour Subpopulations", Invasion Metastasis, 14: 27-37, 1994/5.			
	397	Durand et al. "Active-Site Motifs of Lysosomal Acid Hydrolases: Invariant Features of Clan GH-A Glycosyl Hydrolases Deduced From Hydrophobic Cluster Analysis", Glycobiology, 7(2): 277-284, 1997.			
	398	Korb et al. "Stimulation of Gene Expression by Introns: Conversion of An Inhibitory Intron to A Stimulatory Intron by Alteration of the Splice Donor Sequence", Nucleic Acids Research, 21(25): 5901-5908, 1993.			
	399	Fairbanks et al. "Processing of the Human Heparanase Precursor and Evidence that the Active Enzyme Is A Heterodimer", The Journal of Biological Chemistry, 274(42): 29587-29590, 1999.			
	400	Linhardt et al. "Polysaccharide Lyases", Applied Biochemistry and Biotechnology, 12: 135-176, 1986.			
	401	Dempsey et al. "Heparanase, A Potential Regulator of CellMatrix Interactions", TIBS, 25(8): 349-351, 2000. P.350, Col.1, § 1, Col.3, § 1, Claims 1-24.			
	402	Niwa et al. "Efficient Selection for High-Expression Transfectants With A Novel Eukaryotic Vector", Gene, 108(2): 193-199, 1991. Abstract.			
	403	Mirault et al. "Transgenic Glutathione Peroxidase Mouse Models for Neuroprotection Studies", Ann. NY Acad. Sci., 738: 104-115, 1994. Abstract.			
	404	Lampard et al. "Secretion of Foreign Proteins Mediated by Chicken Lysozyme Gene Regulatory Sequences", Biochem. Cell Biol., 80(6): 777-788, 2002. Abstract.			
	405	Morrison et al. "Sequences in Antibody Molecules Important for Receptor-Mediated Transport Into the Chicken Egg Yolk", Mol. Immunol., 38(8): 619-625, 2002.			
	406	Richards et al. "Construction and Preliminary Characterization of the Rat Casein and Alpha-Lactalbumin cDNA Clones", J. Biol. Chem., 256(1): 526-32, 1981.			
	407	Campbell et al. "Comparison of the Whey Acidic Protein Genes of the Rat and Mouse", Nucleic Acids Res., 12(22): 8685-8697, 1984.			
	408	Gorodetsky et al. "Isolation and Characterization of the Bos Taurus β -Casein Gene", Gene, 66: 87-96, 1988. Abstract.			
	409	Benezra et al. "Thrombin Enhances the Degradation of Heparan Sulfate in the Extracellular Matrix by Tumor Cell Heparanase", Exptl. Cell. Res., 201: 208-215, 1992.			
	410	Harlow et al. "Antibodies - A Laboratory Manual", Cold Spring Harbor Press, P. 471-510, 1988.			
	411	Murray et al. "The Extracellular Matrix", Harper's Biochemistry, McGraw-Hill Professional, 24th Ed., Chap.57, P.667-685, 1998.			
	412	Selvan et al. "Heparan Sulfate in Immune Responses", Ann. NY Acad. Sci., 797: 127-139, 1996.			
	413	Prockop "Marrow Stromal Cells as Stem Cells for Nonhematopoietic Tissues", Science, 276: 71-74, 1997.			
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			Application Number	10/559,925	
			Filing Date	May 02, 2006	
			First Named Inventor	Oron YACOBY-ZEEVI et al	
			Group Art Unit	1644	
			Examiner Name	DIBRINO, MARIANNE NMN	
Sheet	26	Of	27	Attorney Docket Number	30337
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
	414	Pomahac et al. "Tissue Engineering of Skin", Crit. Rev. Oral Biol. Med., 9(3): 333-344, 1998. Abstract.			
	415	Benathan et al. "Living Epidermal and Dermal Substitutes for Treatment of Severely Burned Patients", Rev. Med. Suisse Romande, 118(2): 149-153, 1998. Abstract-			
	416	Wang et al. "Basic Fibroblast Growth Factor Enhances Bone-Graft Incorporation: Dose and Time Dependence in Rats", J. Orthop. Res., 14(2): 316-323, 1996. Abstract.			
	417	Garner "Epidermal Regulation of Dermal Fibroblast Activity", Plast. Reconstr. Surg., 102(1):135-139, 1998. Abstract.			
	418	Raghunath et al. "Cultured Epithelial Autografts: Diving From Surgery Into Matrix Biology", Pediatr. Surg. Int., 12(7): 478-483, 1997. Abstract.			
	419	Maillard et al. "Pre-Treatment With Elastase Improves the Efficiency of Percutaneous Adenovirus-Mediated Gene Transfer to the Arterial Media", Gene Therapy, 5: 1023-1030, 1998.			
	420	Wang "Basic Fibroblast Growth Factor for Stimulation of Bone Formation in Osteoinductive or Conductive Implants", Acta Orthop. Scand. Suppl., 269: 1-33, 1996. Abstract.			
	421	Wang "Basic Fibroblast Growth Factor Infused at Different Times During Bone Graft Incorporation. Titanium Chamber Study in Rats", Acta Orthop. Scand., 67(3): 229-236, 1996. Abstract.			
	422	Aspenberg et al. "Fibroblast Growth Factor Stimulates Bone Formation. Bone Induction Studied in Rats", Acta Orthop. Scand., 60(4): 473-476, 1989. Abstract.			
	423	Aspenberg et al. "Dose-Dependent Stimulation of Bone Induction by Basic Fibroblast Growth Factor in Rats", Acta Orthop. Scand., 62(5): 481-484, 1991. Abstract.			
	424	Matoba et al. "Evaluation of Omental Implantation for Perforated Gastric Ulcer Therapy: Findings in A Rat Model", J. Gastroenterol., 31(6): 777-784, 1996. Abstract.			
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Application Number	10/456,573
Filing Date	06/09/2003
First Named Inventor	Iris PECKER
Group Art Unit	1646
Examiner Name	
Attorney Docket Number	25677

Sheet 2 Of 2

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	✓	Vlodavsky et al, "Inhibition of tumor metastasis by heparanase inhibiting species of heparin", <i>Invasion Metastasis</i> . 1994-95;14(1-6):290-302 (abstract)	
	✓	Parish et al, "Evidence that sulphated polyaccharides inhibit tumour metastasis by blocking tumour-cell-derived heparanases", <i>Int J Cancer</i> . 1987 Oct 15;40(4):511-8.	
	✓	Lider et al, "Suppression of experimental autoimmune diseases and prolongation of allograft survival by treatment of animals with low doses of heparins", <i>J Clin Invest</i> . 1989 Mar;83(3):752-6.	
	✓	Gewirtz et al, "Nucleic acid therapeutics: state of the art and future prospects", <i>Blood</i> . 1998 Aug 1;92(3):712-36.	
	✓	Hida et al, "Antisense E1AF transfection restrains oral cancer invasion by reducing matrix metalloproteinase activities", <i>Am J Pathol</i> . 1997 Jun;150(6):2125-32 (abstract)	
	✓	Thuong et al, "Sequence-specific recognition and modification of double-helical DNA by oligonucleotides", <i>Angew. Chem. Int. Ed. Engl.</i> , 32:666-690, 1993	
		Cohen, JS, "Oligonucleotide therapeutics", <i>Trends Biotechnol.</i> , 10(3):87-91, 1992 (abstract)	
	✓	Szczylik et al, "Selective inhibition of leukemia cell proliferation by BCR-ABL antisense oligodeoxynucleotides", <i>Science</i> . 1991 Aug 2;253(5019):562-5. (abstract)	
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	✓	Burch et al, "Oligonucleotides antisense to the interleukin 1 receptor mRNA block the effects of interleukin 1 in cultured murine and human fibroblasts and in mice", <i>J Clin Invest</i> . 88(4):1190-1196, 1991 (abstract)	
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	✓	Uno et al, "Antisense-mediated suppression of human heparanase gene expression inhibits pleural dissemination of human cancer cells", <i>Cancer Res</i> . 2001 Nov 1;61(21):7855-60.	
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Application Number	10/645,659
Filing Date	08/22/2003
First Named Inventor	YACOBY-ZEEVI
Group Art Unit	1635
Examiner Name	
Attorney Docket Number	26128

Sheet	I		Of	I	Attorney Docket Number	26128
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS						
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		Fairbanks et al., "Processing of the Human Heparanase Precursor and Evidence that the Active Enzyme is a Heterodimer", <i>J. Biol. Chem.</i> , vol. 274, No. 42, pp. 29517-29590, 15 Oct. 1999.				
		Hulett et al., "Cloning of Mammalian Heparanase, an Important Enzyme in Tumor Invasion and Metastasis", <i>Nature Medicine</i> , 5(7):803-809, 1999				
		Toyoshima et al., "Human Heparanase: Purification, Characterization, Cloning, and Expression", <i>J. of Biolog. Chemistry</i> , vol. 274, No. 34, pp. 24153-24160, 20 Aug. 1999.				
		Miao et al., "Cloning, Expression, and Purification of Mouse Heparanase", <i>Protein Expression and Purification</i> , 26:425-431, 2002				
		Freeman et al., "Human Platelet Heparanase: Purification, Characterization and Catalytic Activity". <i>Biochem J.</i> , 330(3): 1341-1350, 1998.				
Examiner Signature					Date Considered	

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